

TECHSPEC[®] 20mm Diameter Uncoated, Ultra-Thin Fused Silica Window



Stock **#24-227** 20+ In Stock

-

1

+

C\$242^{.20}

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Volume Pricing	
Qty 1-5	C\$242.20 each
Qty 6-25	C\$193.20 each
Qty 26-49	C\$180.60 each
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General

Protective Window

Type:

Physical & Mechanical Properties

17.00

Clear Aperture CA (mm):

20.00 +0.00/-0.10

Diameter (mm):

0.20 ±0.025	Thickness (mm):
Protective as needed	Bevel:
Fine Ground	Edges:
<1	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):

522.00	Knoop Hardness (kg/mm²):
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Optical Properties

Uncoated	Coating:
Fused Silica (Corning 7980)	Substrate: ☐

1.458	Index of Refraction (n _d):
60-40	Surface Quality:

λ/2	Transmitted Wavefront, P-V:
64.17	Abbe Number (v _d):

200 - 2200	Wavelength Range (nm):
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Material Properties

2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance

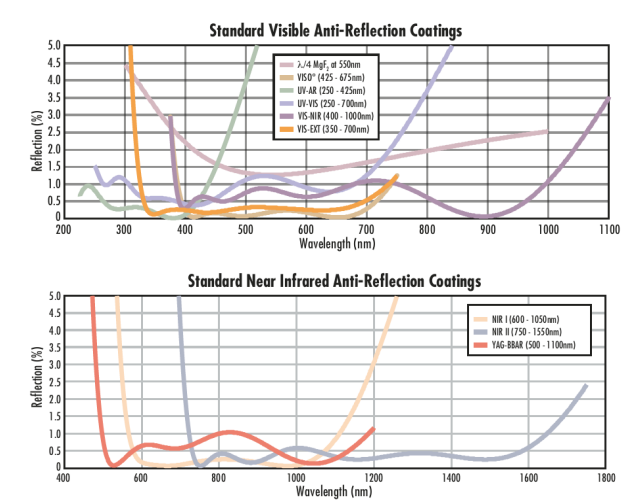
View	Certificate of Conformance:
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Product Details

- Ultra-Thin 0.20mm Thickness
- UV Fused Silica Substrates
- Extremely Lightweight

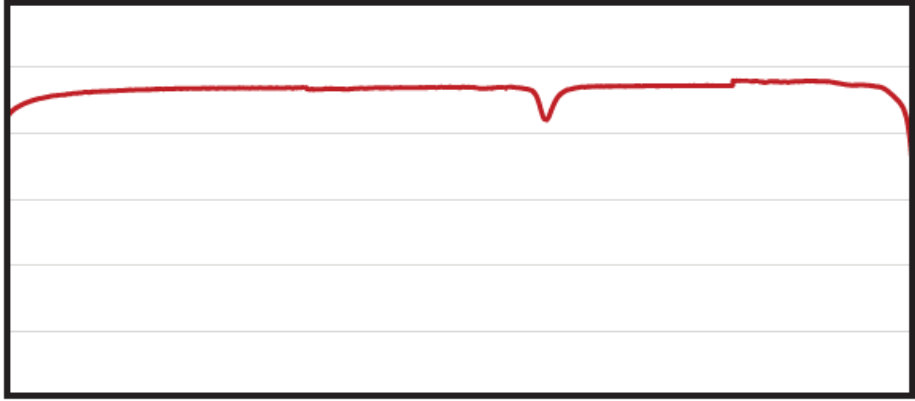
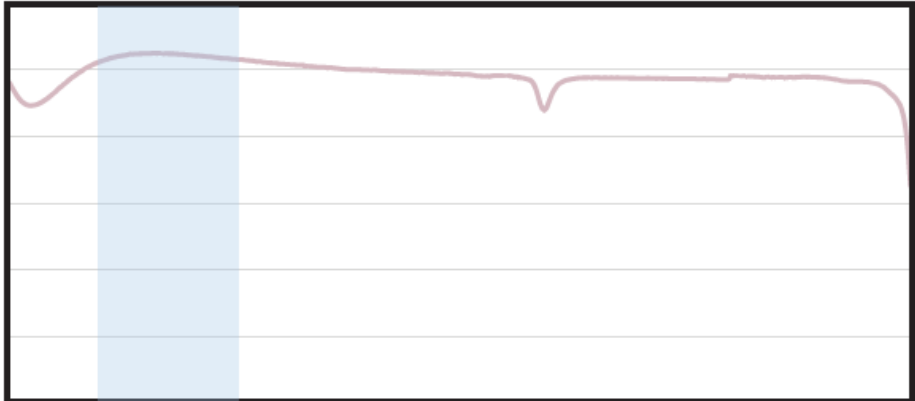
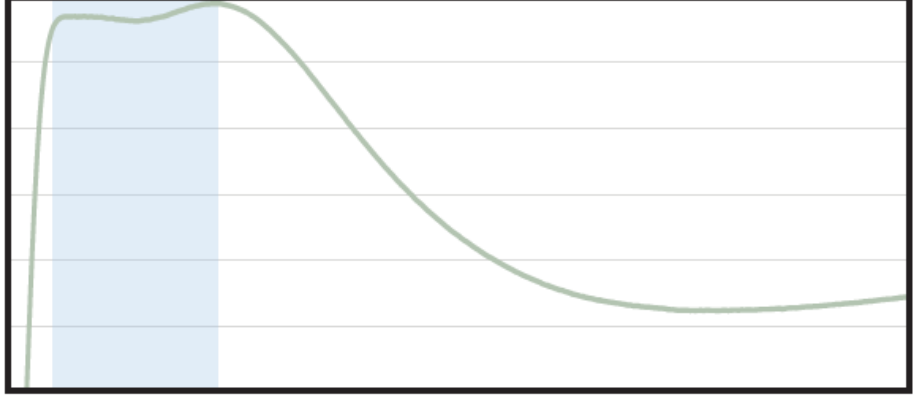
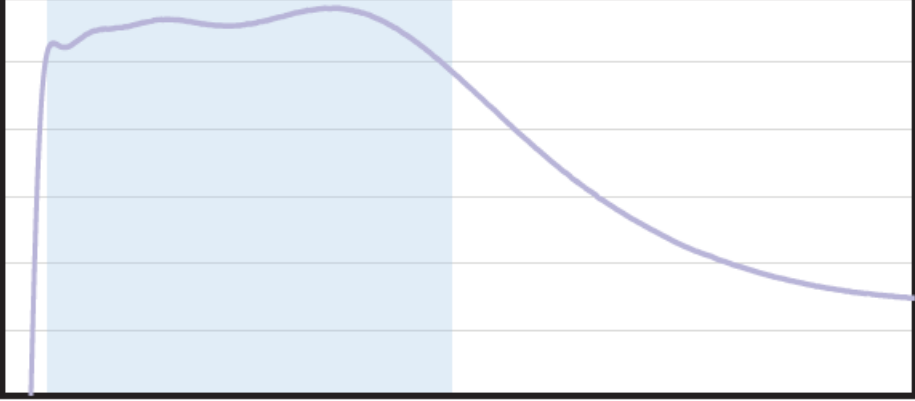
TECHSPEC® Ultra-Thin Fused Silica Windows provide the benefits of fused silica including low thermal expansion, excellent chemical resistance, and UV transmission with a thickness less than 1/5th of our standard fused silica windows. Unlike traditional cover glass, these windows have polished surfaces to provide consistent transmitted wavefront distortion, making them advantageous for OEM applications. Their extremely thin designs make them ideal for both weight and size sensitive applications, especially those requiring broadband transmission from the UV to the NIR. TECHSPEC Ultra-Thin Fused Silica Windows are ideal for handheld medical devices, wearable technology, and portable UV lights.

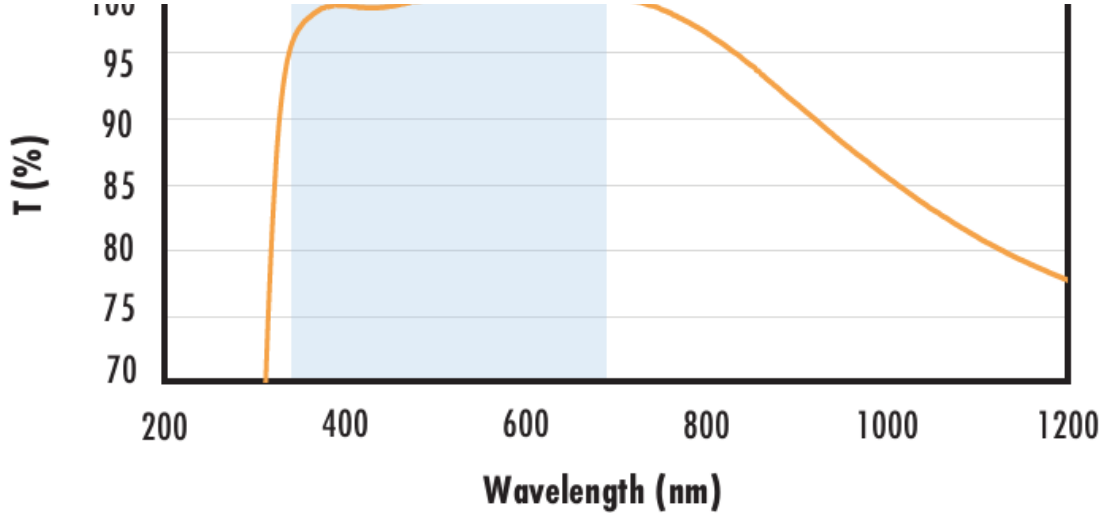
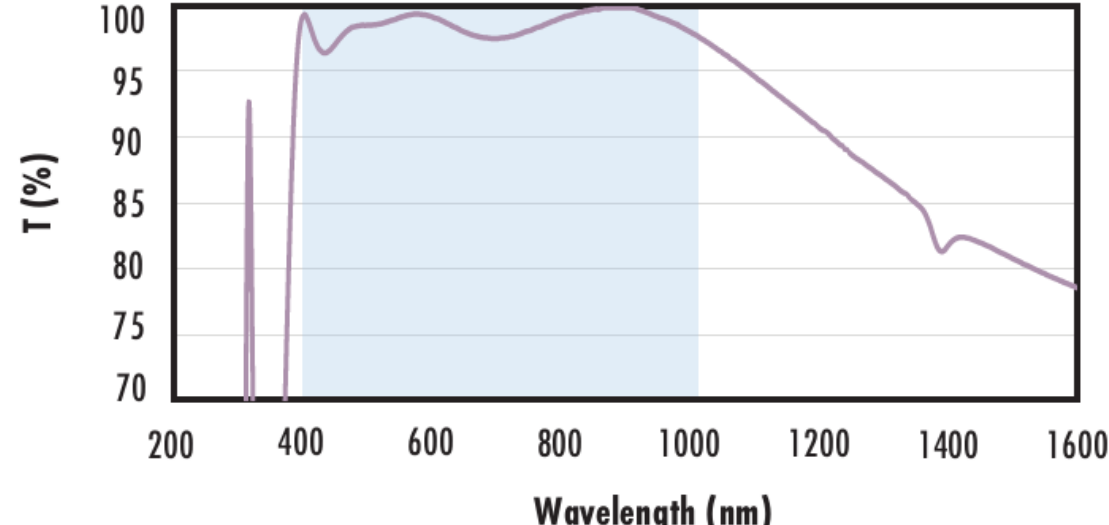
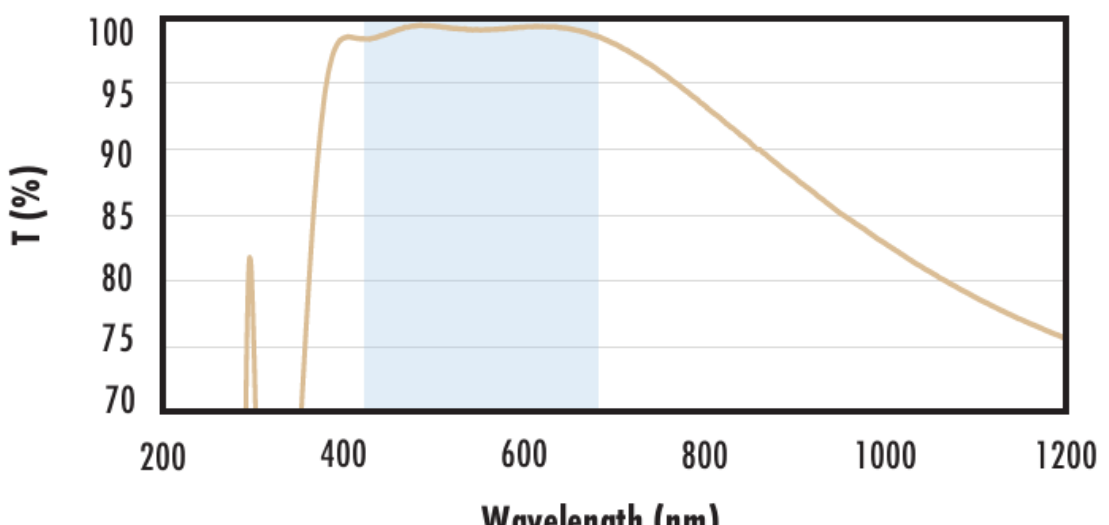
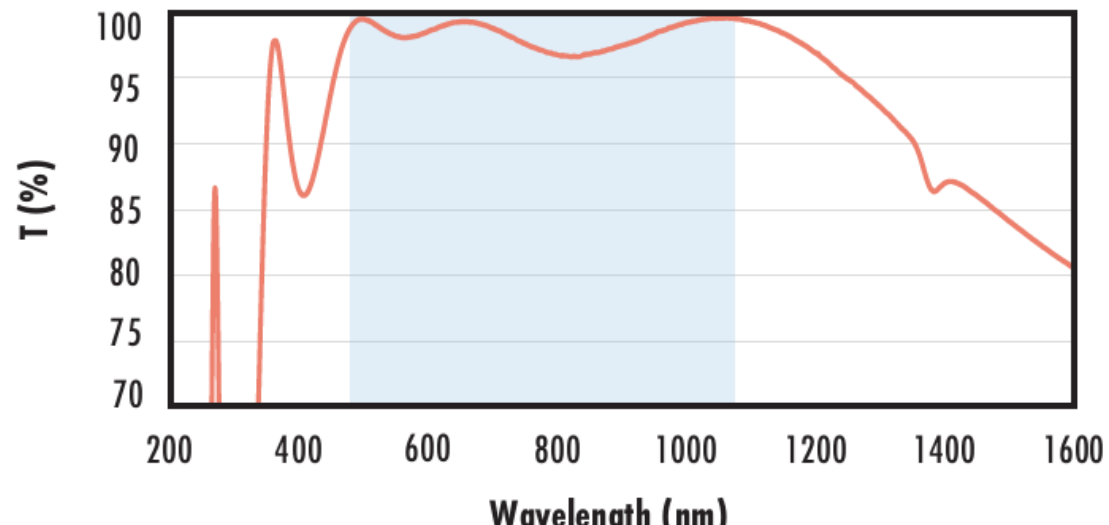
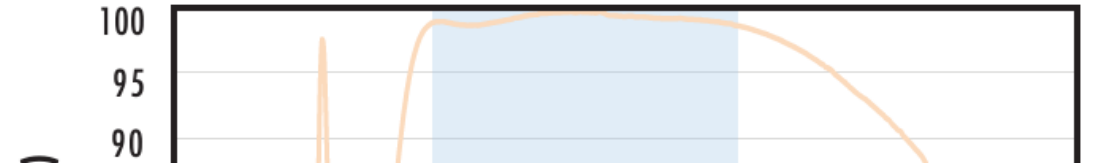
Technical Information

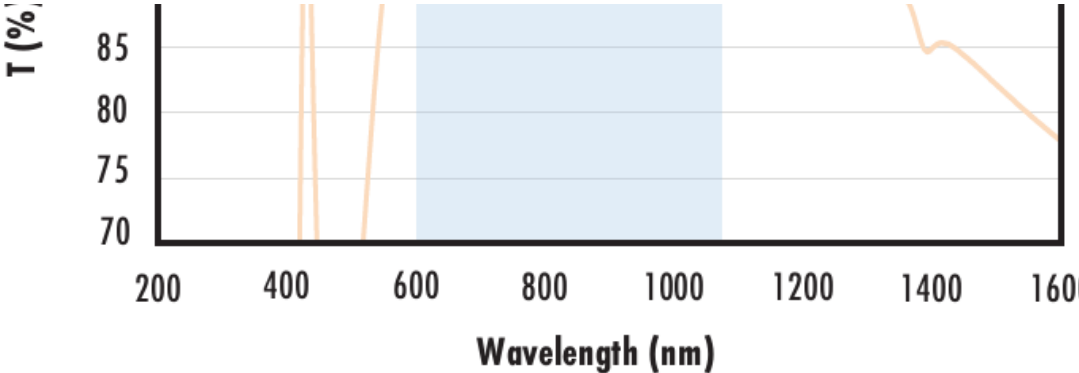
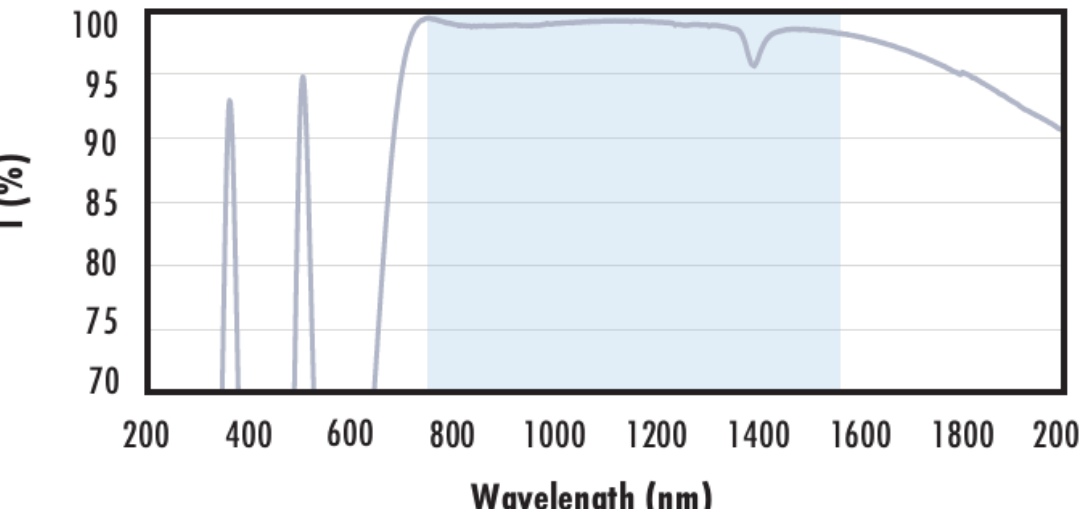


FUSED SILICA

Uncoated Fused Silica

Uncoated Fused Silica Typical Transmission <table border="1"><caption>Approximate data for Uncoated Fused Silica</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>92.5</td></tr><tr><td>400</td><td>93.5</td></tr><tr><td>600</td><td>94.0</td></tr><tr><td>800</td><td>94.0</td></tr><tr><td>1000</td><td>94.0</td></tr><tr><td>1200</td><td>94.0</td></tr><tr><td>1400</td><td>92.0</td></tr><tr><td>1600</td><td>94.0</td></tr><tr><td>1800</td><td>94.5</td></tr><tr><td>2000</td><td>94.5</td></tr><tr><td>2200</td><td>90.0</td></tr></tbody></table>	Wavelength (nm)	Transmission T (%)	200	92.5	400	93.5	600	94.0	800	94.0	1000	94.0	1200	94.0	1400	92.0	1600	94.0	1800	94.5	2000	94.5	2200	90.0	Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra. Click Here to Download Data		
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Fused Silica with VIS-EXT Coating Typical Transmission 																											

	Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\%$ @ 350 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-NIR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\%$ @ 880nm $R_{avg} \leq 1.25\%$ @ 400 - 870nm $R_{avg} \leq 1.25\%$ @ 890 - 1000nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS 0° Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.4\%$ @ 425 - 675nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with YAG-BBAR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\%$ @ 532nm $R_{abs} \leq 0.25\%$ @ 1064nm $R_{avg} \leq 1.0\%$ @ 500 - 1100nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR I Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification:

	range, with the following specification: $R_{avg} \leq 0.5\%$ @ 600 - 1050nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with NIR II Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.5\%$ @ 750 - 800nm $R_{abs} \leq 1.0\%$ @ 800 - 1550nm $R_{avg} \leq 0.7\%$ @ 750 - 1550nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data